

WEST Search History

DATE: Monday, March 17, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,DWPI; PLUR=YES; OP=ADJ</i>			
L1	6054575.pn. or 5583016.pn.	3	L1
L2	L1 and derive	0	L2
L3	nucleotide and sugar and (phosphodiester or internucleosidyl linkage) and (pyrimidine or purine) and terminol thiol	0	L3
L4	monophosphate or diphosphate or bisphosphate or triphospahte	14113	L4
L5	L4 same nucleotide	1844	L5
L6	L5 same carbon atoms	21	L6
L7	L6 and ((saturated or unsaturated) near side chain)	0	L7
L8	L6 and (saturated or unsaturated)	15	L8
L9	L8 and metal cluster	0	L9
L10	L5 and metal cluster	0	L10
L11	L5 and metal	771	L11
L12	L6 and metal	10	L12
L13	L12 and (collidal gold)	0	L13
L14	L6 and (collidal gold)	0	L14
L15	L11 and collidal gold	0	L15
L16	collidal gold	3	L16
L17	maleimido near derivative	41	L17
L18	L17 and metal	13	L18
L19	L18 and nucleotide	1	L19
L20	L18 and nucleic acid	2	L20

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 5418171 A

L16: Entry 1 of 3

File: USPT

May 23, 1995

US-PAT-NO: 5418171

DOCUMENT-IDENTIFIER: US 5418171 A

TITLE: Method for detecting a target analyte in a sample

DATE-ISSUED: May 23, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kimura; Fumio	Yokohama			JP
Koizumi; Naohisa	Yokohama			JP
Matsuo; Koichi	Yokohama			JP
Aoyagi; Minoru	Yokohama			JP
Harakawa; Kiyomi	Chuo			JP

US-CL-CURRENT: 436/518; 422/56, 422/57, 422/58, 422/948, 435/7.92, 435/7.94, 435/810,
436/165, 436/169, 436/524, 436/525, 436/528, 436/530, 436/536, 436/538, 436/540,
436/541, 436/805, 436/807, 436/809, 436/810

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 2. Document ID: US 4937219 A

L16: Entry 2 of 3

File: USPT

Jun 26, 1990

US-PAT-NO: 4937219

DOCUMENT-IDENTIFIER: US 4937219 A

TITLE: Ultra-fine gold particle-immobilized alkaline earth metal compounds and methods for production thereof

DATE-ISSUED: June 26, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haruta; Masatake	Kawanishi			JP
Tsubota; Susumu	Ashiya			JP
Kobayashi; Tetsuhiko	Ikeda			JP
Nakahara; Yoshiko	Ikeda			JP

US-CL-CURRENT: 502/174; 502/328, 502/340, 502/344

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc
Image												

☐ 3. Document ID: US 5225064 A DE 69331150 E WO 9424262 A1 AU 9341097 A NO 9504216 A EP 695344 A1 FI 9504968 A JP 09500201 W AU 681848 B JP 3204980 B2 EP 695344 B1

L16: Entry 3 of 3

File: DWPI

Jul 6, 1993

DERWENT-ACC-NO: 1993-226501

DERWENT-WEEK: 200207

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TITLE: Bio-electrode with peroxidase and oxidase enzymes - used partic. in glucose assay, has high sensitivity and concn. range

INVENTOR: HENKENS, R W; ODALY, J P ; ZHAO, J ; O'DALY, J P

PATENT-ASSIGNEE:

ASSIGNEE

CODE

ANDCARE INC

ANDCN

ENZYME TECHNOLOGY RES GROUP INC

ENZYN

PRIORITY-DATA: 1992US-0846229 (March 6, 1992), 1992US-0821732 (January 15, 1992), 1993WO-US03746 (April 22, 1993), 1993AU-0041097 (April 22, 1993), 1995NO-0004216 (October 20, 1995), 1993EP-0910692 (April 22, 1993), 1995FI-0004968 (October 18, 1995), 1994JP-0523088 (April 22, 1993), 1993DE-0631150 (April 22, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5225064 A	July 6, 1993		017	G01N027/26
DE 69331150 E	December 20, 2001		000	C12M001/40
WO 9424262 A1	October 27, 1994	E	047	C12M001/40
AU 9341097 A	November 8, 1994		000	C12M001/40
NO 9504216 A	December 14, 1995		000	C12M000/00
EP 695344 A1	February 7, 1996	E	000	C12M001/40
FI 9504968 A	December 19, 1995		000	G01N000/00
JP 09500201 W	January 7, 1997		038	G01N027/327
AU 681848 B	September 11, 1997		000	C12Q001/54
JP 3204980 B2	September 4, 2001		014	G01N027/327
EP 695344 B1	November 14, 2001	E	000	C12M001/40

DESIGNATED-STATES: AT AU BB BG BR CA CH CZ DE DK ES FI GB HU JP KP KR LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

CITED-DOCUMENTS:4.Jnl.Ref; US 5082550 ; US 5082786 ; US 5225064 ; WO 9109304

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 5225064A	January 15, 1992	1992US-0821732	CIP of
US 5225064A	March 6, 1992	1992US-0846229	
DE 69331150E	April 22, 1993	1993DE-0631150	
DE 69331150E	April 22, 1993	1993EP-0910692	
DE 69331150E	April 22, 1993	1993WO-US03746	
DE 69331150E		EP 695344	Based on
DE 69331150E		WO 9424262	Based on
WO 9424262A1	April 22, 1993	1993WO-US03746	
AU 9341097A	April 22, 1993	1993AU-0041097	
AU 9341097A	April 22, 1993	1993WO-US03746	
AU 9341097A		WO 9424262	Based on
NO 9504216A	April 22, 1993	1993WO-US03746	
NO 9504216A	October 20, 1995	1995NO-0004216	
EP 695344A1	April 22, 1993	1993EP-0910692	
EP 695344A1	April 22, 1993	1993WO-US03746	
EP 695344A1		WO 9424262	Based on
FI 9504968A	April 22, 1993	1993WO-US03746	
FI 9504968A	October 18, 1995	1995FI-0004968	
JP 09500201W	April 22, 1993	1993WO-US03746	
JP 09500201W	April 22, 1993	1994JP-0523088	
JP 09500201W		WO 9424262	Based on
AU 681848B	April 22, 1993	1993AU-0041097	
AU 681848B		AU 9341097	Previous Publ.
AU 681848B		WO 9424262	Based on
JP 3204980B2	April 22, 1993	1993WO-US03746	
JP 3204980B2	April 22, 1993	1994JP-0523088	
JP 3204980B2		JP 9500201	Previous Publ.
JP 3204980B2		WO 9424262	Based on
EP 695344B1	April 22, 1993	1993EP-0910692	
EP 695344B1	April 22, 1993	1993WO-US03746	
EP 695344B1		WO 9424262	Based on

INT-CL (IPC): C12 M 0/00; C12 M 1/40; C12 Q 1/00; C12 Q 1/26; C12 Q 1/28; C12 Q 1/54;
G01 N 0/00; G01 N 27/26; G01 N 27/327; G01 N 27/416

RELATED-ACC-NO: 1993-196131;1994-248325 ;1995-014062 ;1995-098021 ;1996-010008

ABSTRACTED-PUB-NO: EP 695344B
 BASIC-ABSTRACT:

Bioelectrode comprises: (a) a conducting surface; (b) a peroxidase, adsorbed in a monolayer or close to a monolayer, on to colloidal gold particles, so that the enzyme is deposited on (a); and (c) an oxidase layer on top of the layer (b) so that direct electron transfer to (a) occurs in presence of an analyte, when the bioelectrode is suitably coupled with a reference/counter electrode.

USE/ADVANTAGE - For assay of oxidisable substrates which generate H₂O₂ with the appropriate oxidase, e.g. cholesterol, xanthine, amino acids, lactic acid, alcohol, glycollate, pyridoxal, sorbose, gulonolactose, or galactose. It is partic. suitable for assay of glucose in body fluids producing a current of concns. as low as 1 microM, with linear response to glucose concn. The method avoids prior art problems including use of mediators, which to be effective must be in oxidised form; reduced response at high glucose concns. in another method, lack of sufficient sensitivity, or background

interference.
ABSTRACTED-PUB-NO:

US 5225064A
EQUIVALENT-ABSTRACTS:

Bioelectrode comprises: (a) a conducting surface; (b) a peroxidase, adsorbed in a monolayer or close to a monolayer, on to colloidal gold particles, so that the enzyme is deposited on (a); and (c) an oxidase layer on top of the layer (b) so that direct electron transfer to (a) occurs in presence of an analyte, when the bioelectrode is suitably coupled with a reference/counter electrode.

USE/ADVANTAGE - For assay of oxidisable substrates which generate H₂O₂ with the appropriate oxidase, e.g. cholesterol, xanthine, amino acids, lactic acid, alcohol, glycollate, pyridoxal, sorbose, gulonolactose, or galactose. It is partic. suitable for assay of glucose in body fluids producing a current of concns. as low as 1 microM, with linear response to glucose concn. The method avoids prior art problems including use of mediators, which to be effective must be in oxidised form; reduced response at high glucose concns. in another method, lack of sufficient sensitivity, or background interference.

CHOSEN-DRAWING: Dwg.6/6

TITLE-TERMS: BIO ELECTRODE PEROXIDASE OXIDASE ENZYME GLUCOSE ASSAY HIGH SENSITIVE
CONCENTRATE RANGE

DERWENT-CLASS: B04 D16 J04 S03

CPI-CODES: B01-D02; B04-A06; B04-B02C2; B04-C02D; B05-A03B; B05-C06; B07-D04; B10-A07;
B10-B02C; B10-C04E; B10-E04; B11-C08B; D05-A02A; D05-H09; J04-B01;

EPI-CODES: S03-E03C; S03-E14H5;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
M423 M424 M740 M760 M903 N102 Q233 Q435 V600 V615
V623 V632

Chemical Indexing M1 *03*
Fragmentation Code
M423 M424 M430 M740 M782 M903 N102 P831 Q233 Q435
V802 V811

Chemical Indexing M1 *05*
Fragmentation Code
K0 K4 K421 L8 L815 L831 M423 M424 M430 M740
M782 M903 N102 P831 Q233 Q435 V735

Chemical Indexing M2 *02*
Fragmentation Code
H4 H405 H484 H8 J4 J471 K0 L8 L814 L821
L831 M280 M315 M321 M332 M344 M349 M381 M391 M416
M424 M620 M740 M750 M903 M904 M910 N102 Q233 Q435
Specific Compounds
00038A

Chemical Indexing M2 *04*
Fragmentation Code
A647 C810 M411 M424 M430 M740 M782 M903 M904 N102
P831 Q233 Q435
Specific Compounds
03080D 03080M

Chemical Indexing M2 *06*

Fragmentation Code

C106 C810 M411 M424 M430 M740 M782 M903 M904 M910

N102 P831 Q233 Q435

Specific Compounds

01669D 01669M

Chemical Indexing M6 *07*

Fragmentation Code

M903 P831 Q233 Q435 R150 R515 R528 R611 R612 R613

R624 R627 R638 R639

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0038U; 1669U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-100789

Non-CPI Secondary Accession Numbers: N1993-173933

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Clip Img	Image								

KMC	Draw Desc
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Term	Documents
COLLIDAL.DWPI,USPT.	260
COLLIDALS	0
GOLD.DWPI,USPT.	133535
GOLDS.DWPI,USPT.	238
(COLLIDAL ADJ GOLD).USPT,DWPI.	3
(COLLIDAL GOLD).USPT,DWPI.	3

Display Format:

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WEST Search History

DATE: Tuesday, March 18, 2003

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB,EPAB,DWPI; PLUR=YES; OP=ADJ

L1	zhang-B\$.in. or Cui-Z\$.in. or Zhang-L\$.in.	2289	L1
L2	L1 and terminal thiol	0	L2
L3	L1 and thiol	15	L3
L4	L1 and thiol	512	L4
L5	L4 and terminal thiol	1	L5
L6	l1 and terminal thiol	0	L6
L7	L1 and RNA molecule	10	L7
L8	L7 and thiol	1	L8
L9	terminal thiol	250	L9
L10	L9 Same (nucleotide or DNA or RNA)	12	L10
L11	L9 same (base or pyrimidine or purine or adenine or thymine or cytosine or uracil or guanine)	5	L11
L12	L9 and DNA or RNA	64125	L12
L13	L9 and (DNA or RNA)	96	L13
<i>DB=USPT,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L14	L13	71	L14
L15	l9 same (DNA or RNA)	10	L15

END OF SEARCH HISTORY

L4 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1989:24156 CAPLUS
DN 110:24156
TI The synthesis and applications of modified oligodeoxyribonucleotides in
molecular biology
AU Sproat, Brian S.; Beijer, Barbro; Rider, Peter; Neuner, Philippe
CS Eur. Mol. Biol. Lab., Heidelberg, D-6900, Fed. Rep. Ger.
SO Nucleic Acids Symposium Series (1988), 20, 117-18
CODEN: NACSD8; ISSN: 0261-3166
DT Journal; General Review
LA English